

**M 4.1, 7km NW of Pinnacles, CA**

Origin Time: 2022-03-13 20:51:32 UTC (Sun 13:51:32 local)  
Location: 36.5847° N 121.1883° W Depth: 6.0 km

**FOR TSUNAMI INFORMATION, SEE: [tsunami.gov](https://tsunami.gov)**

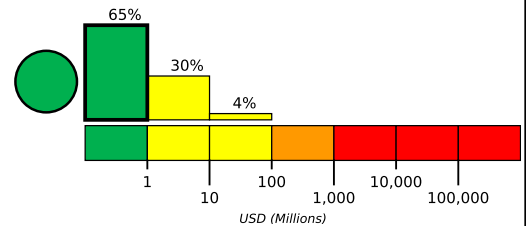
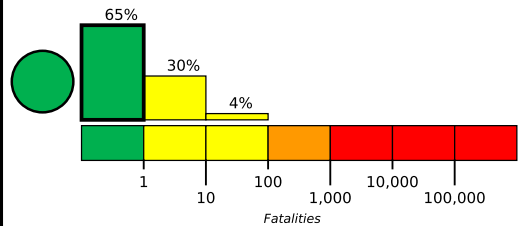
**PAGER  
Version 18**

Created: 2 weeks, 4 days after earthquake

**Estimated Fatalities**

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

**Estimated Economic Losses**

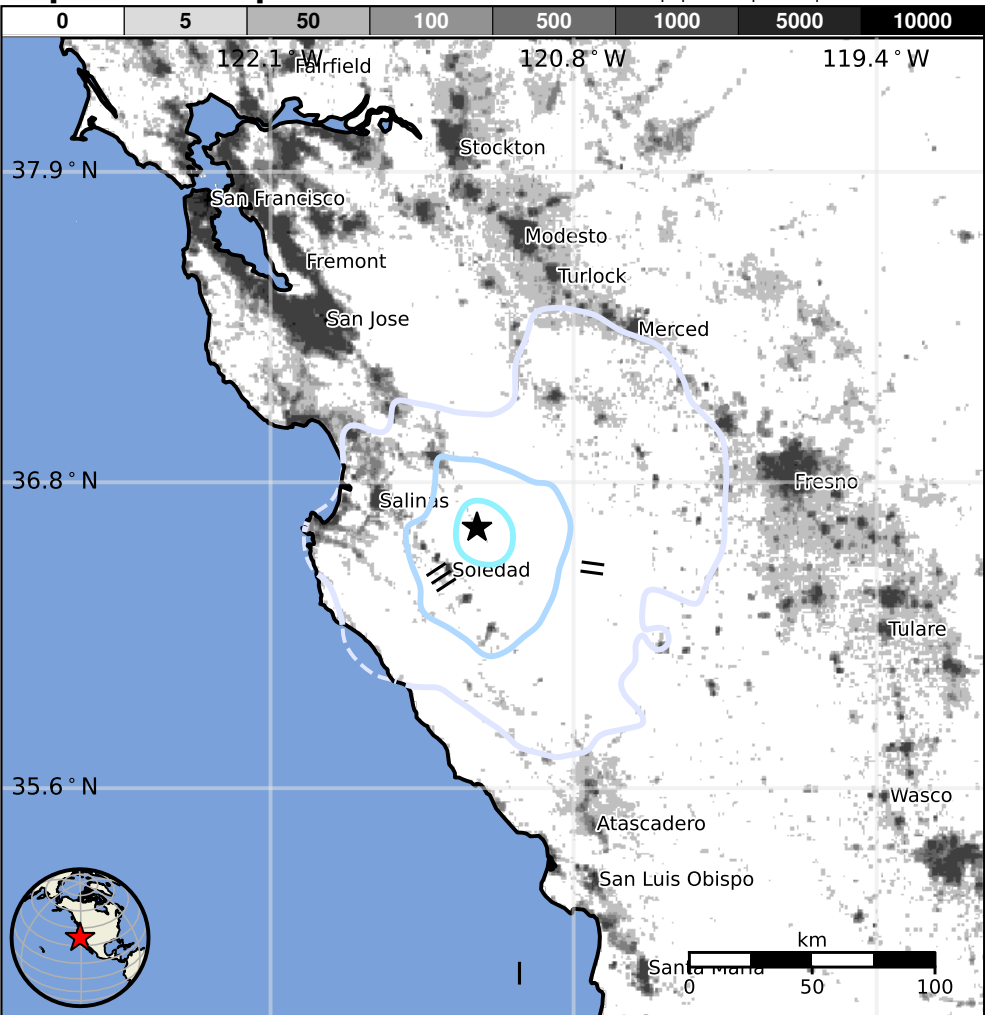


**Estimated Population Exposed to Earthquake Shaking**

ESTIMATED POPULATION EXPOSURE (k=x1000)		12,312k	946k	0	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

\*Estimated exposure only includes population within the map area.

**Population Exposure**



**Structures**

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

**Historical Earthquakes**

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1991-06-28	388	5.6	VI(1,267k)	1
2003-12-22	107	6.6	VI(8k)	2
1971-02-09	350	6.6	IX(21k)	65

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

**Selected City Exposure**

from GeoNames.org

MMI	City	Population
III	<b>Soledad</b>	<b>26k</b>
III	Greenfield	16k
III	Gonzales	8k
III	King City	13k
III	Chualar	1k
III	Hollister	35k
I	<b>Fresno</b>	<b>495k</b>
I	<b>San Jose</b>	<b>946k</b>
I	<b>San Francisco</b>	<b>805k</b>
I	Oakland	391k
I	Bakersfield	347k

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.  
<https://earthquake.usgs.gov/earthquakes/eventpage/nc73705146#pager>

bold cities appear on map.

(k = x1000)

Event ID: nc73705146